



Gulf of Mexico Harmful Algal Bloom Bulletin

30 June 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: June 27, 2005

Conditions: A harmful algal bloom has been identified in Pinellas, Manatee, Sarasota, Charlotte, and northern Lee Counties. In northern Pinellas County, patchy low impacts are possible today through Saturday, with patchy very low impacts possible Sunday and Monday. From central Pinellas County to northern Sarasota County, patchy moderate to high impacts are possible today through Saturday, with patchy moderate impacts possible Sunday and patchy low impacts possible Monday. In central to southern Sarasota County, patchy low impacts are possible today through Saturday, with patchy very low impacts possible Sunday and Monday. In Charlotte County, patchy moderate impacts are possible today through Saturday, with patchy low impacts possible Sunday and patchy very low impacts possible Monday. In northern Lee County, patchy low impacts are possible today through Saturday, with patchy very low impacts possible Sunday and Monday. Dead fish were reported on June 29 in southern Pinellas County, and on June 28 in northern Manatee County.

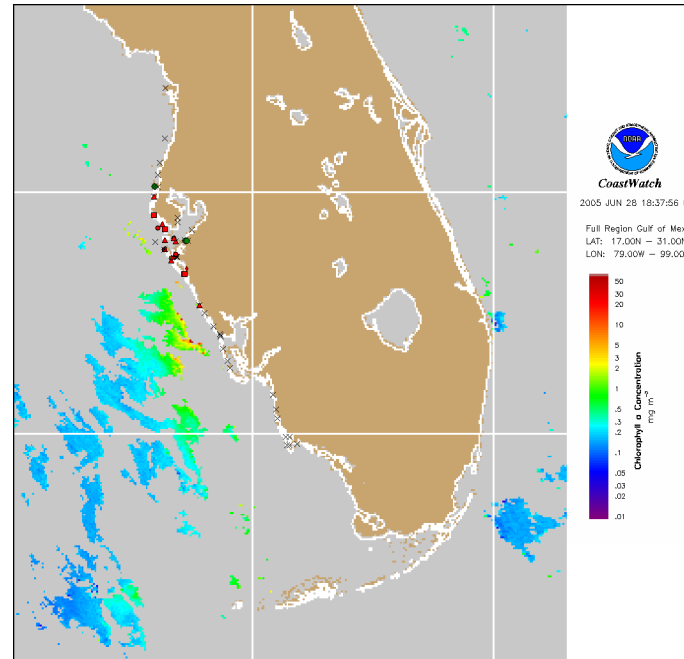
Analysis: Recent satellite imagery has been obscured by clouds. According to a wind-based transport model, the northern extent of the bloom, which was located near Clearwater on Monday, may now be located as much as 25 km north. Recent samples verify this movement, with low concentrations found as far north as Honeymoon Island. High concentrations were found at Indian Rocks Beach, Mullet Key, Redington Pier, Skyway Fishing Pier, Anna Maria Island and New Pass. Medium concentrations were found from St. Petersburg Beach to Longboat Pass. The bloom has expanded southward into Charlotte and northern Lee Counties also. Very low to low cell counts were found from Placida Harbor to Boca Grande Pass, with one medium cell count at Gasparilla Pass. Imagery from June 28 indicates a chlorophyll

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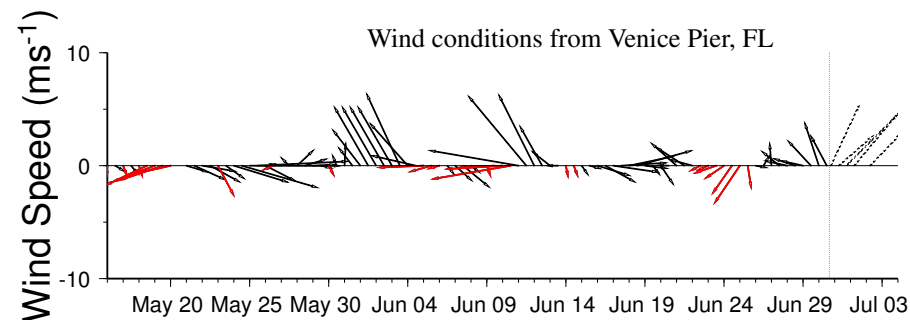
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concentration of $>8 \mu\text{g/L}$ 30 miles west of Gasparilla Pass, at $26^{\circ}45'\text{N}$, $82^{\circ}35'\text{W}$. Westerly and southerly winds will increase the potential for impacts at the beach through Sunday. Slight northerly movement is possible Sunday and Monday.

Bronder, Stolz, Fisher

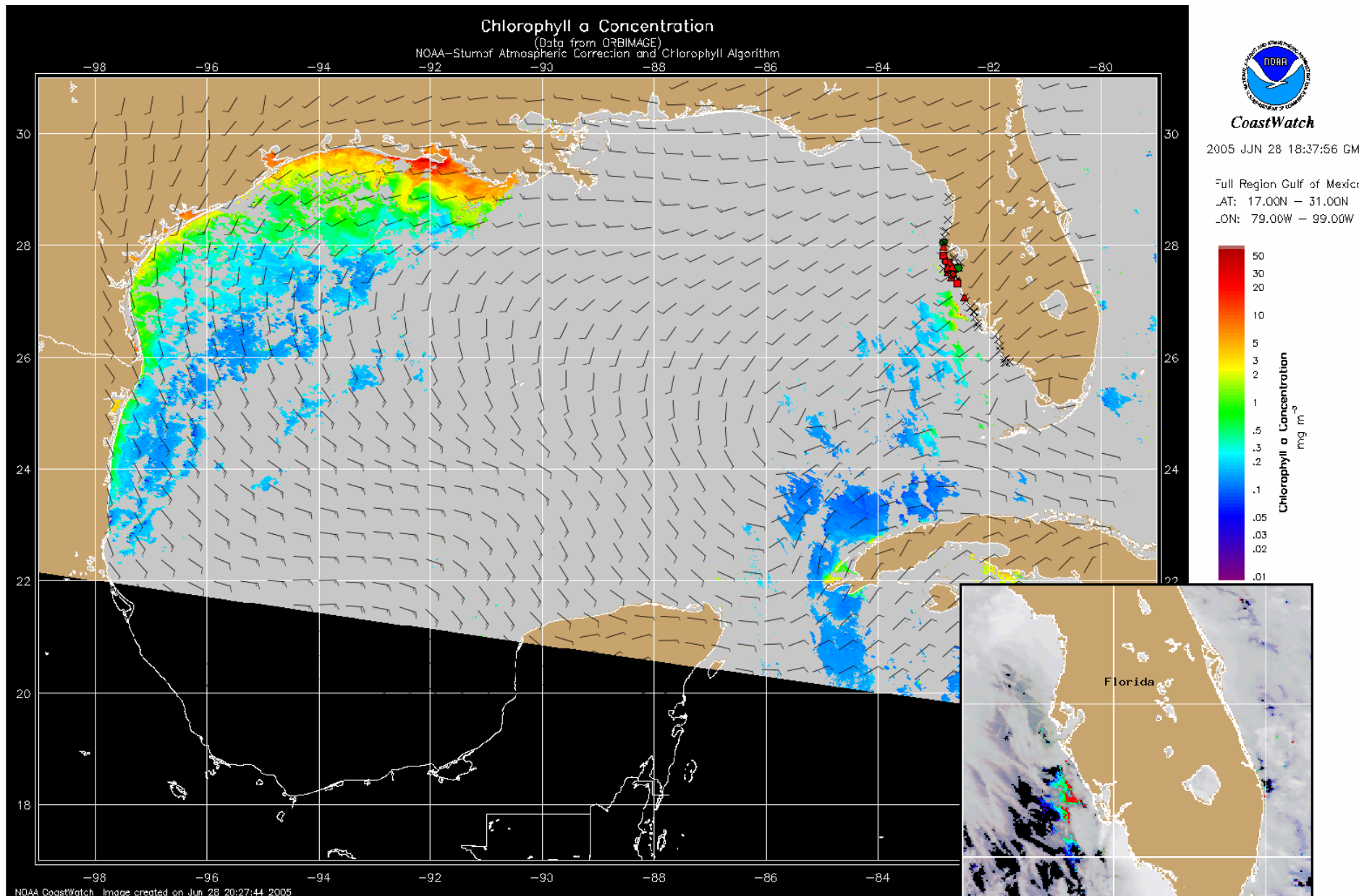


Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from June 24, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Winds will be southwest (10 kts, 5 m/s) today, west (10 kts, 5 m/s) tomorrow and Saturday, south (10 kts, 5 m/s) Sunday, and southeast (5 kts, 3 m/s) Monday.



Chlorophyll concentration from satellite and forecast winds for July 1, 2005 12Z with cell concentration sampling data from June 24, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)

